In American Motorist.

Now and then the owner is sorely troubled by a mysterious popping of nis motor which makes its appear- flapper valve. ence particularly when he drives with

the flapper valve, being dry, may re-move any collection of dirt that may fuse to seaf properly. Before dis- be on the surface of the valve with a

cation that the flapper valve is not closing properly and that air is ad-mitted from the reservoir to the upper vacuum chamber through the To clean the valve, remove the in-

wide open throttle. If the pop-ping disappears when the accelerator ing screws and after removing the almost certain indication that some the flapper valve by taking out the the original leak. Do not use the car has been idle for some spaces. Hold the flapper valve on that would increase the weight of the

Amessage from HeadQvarters WESTE UNION.

YES, great news, for we have received word from our headquarters in New York granting us permission to continue our sensational One-Dollar Sale of Tires over the Fourth of July holidays.

GOOD NEWS!

BUY EXTRA TIRES FOR YOUR 4th OF JULY TRIP

Buy them now, when you can save money, and do away with the possibility of marring the pleasure of your outing with defective or insufficient tires and tubes. Read on:

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ARCHER KENT PLAINFIELD Every one of these tires arries a written mileage ruarantee from us. Hundreds of First Tires with original acrisi number; all wrapped as they left the factory, also in this sale.

Odd Size TIRES now being sold at half price or less. What size do you need?

"Better Tires for the Same Money or the Same Tires for Less Money Than Elsewhere."

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result from a leaky float. This causes excessive gasoline consumption and loading of the engine at nearly any speed. To locate leaks in the float, mmerse it in hot water. Bubbles will indicate the escape of air. Punch a hole in top and bottom of the float and drain out all gasoline and water

float and disturb the operation. Text Particular care should be taken to that the cork gaskets at the top of the tank are not damaged on to-moval of the head of vacuum chamber. These gaskets are put on with shellac before being replaced. If they

It is a good plan to clean the vacgasoline through the plug at the top after disconnecting the gasoline line to the carbureter. This will flush out any sediment that may have collected in the bottom.

where and when the motorist is unable to secure help in extrigating himself from the difficulty.

The first thing to do is to make certain that the tightness is not in some other part of the car, as the differential or the transmission. Thus, as a matter of precaution, the rear wheels should be jacked up and both wheels turned while the transmission is in neutral and the emergency brake disengaged. .If the wheels turn free!;

the indications are that there is a seized piston. It is assumed, of course, that every other reasonable means has been tried, such as startng the engine by means of the electric starter re-enforced by a man at he crank handle.

If all attempts at securing a start ave been unsuccessful as far as this

Oversize Pistons and Rings Fitted

Wrist Pins

Is your motor losing

Is it using too much

Does it smoke excessively?

If so, consult—

PRECISION MACHINE CO.

Shop-S. Washington, Va. (Addison Sta. on W. Va. Ry.) Business Office, Riggs Bldg. Main 3047

time and the vacuum tank drained, one finger of your open hand and re- or the pet cocks opened and a liberal AUTO ANNOYANCES

fuse to seaf properly. Before dismantling the tank unscrew the plug in the top of the tank and introduce as small quantity—a half pint or so of gasoline; this will moisten the valve, wash off sediment and secure a better seaf. Should the tank related to fuse to function after this is done, the walve being turned disconnect the pipe leading to the carbureter and drain the vacuum tank. Hold a finger over this tube and cover the vent opening. If a continuous spution is felt through either tube when the engine is operated or turned over with the throttle closed this may be taken as an indication of the valve with a file will do. Do not use sand paper on the valve this has a tendency to make the seat uneven. With the should be pushed across it in one direction, the valve being turned through a fraction of a turn and the operation repeated. When the car is well under way the transmission should be slipped in the seat on which the flapper valve closes this also should be removed way that it slips to some little exception of the valve being turned through a fraction of a turn and the operation repeated. When the car is well under way the transmission should be slipped in the seat on which the flapper valve closes this also should be removed the surface perfectly flat and smooth. The turned over with the throttle closed this may be taken as an indicated of the valve with a file will do. Do not use sand paper on the valve the seat uneven. With the seat quantity of kerosene poured into all

After the engine has started under its own power, it should be stopped and turned over a number of times by hand. Then, if the kerosene supply has been liberal it is a good plan to drain the crank case and pour in new cylinder oil. Needless to say, the motor should be run carefully and slowly until the new oil has had itme to reach the pistons and cylinder walls.

There are a number of causes which partially stopped up or clogged mut-fier. It is natural that the often nar-row and tortuous passages of the muffler should be shoked with carbon after a year's use. Very often a re-markable improvement in engine efficiency is secured with no greater trouble than a temporary cleaning of the muffler which should be beaten with a wooden mailet or a piece of wood: this will loosen the worst accumulations which will then be blown out through the tail pipe. If the car is equipped with a muffler cut-out and there is a noticeable difference in power when the cut-out is closed and open, a cleaning of the muffler, as inome item, particularly if it occurs dicated, should be undertaken at once.

> One reason why carburetor adjust ments made by the owner, now and then, don't seem to "stick" is that too often such adjustments are made be fore the engine is well warmed up. Always make it a point to get your motor about as warm as it would be in a run of several miles.

HOW TO HEAR HEART BEATS OF YOUR MOTOR

It is not a very difficult matter to construct an instrument that will enable the owner to listen to the very heart beats of his motor and find out what ails it. One way is to secure spark plugs should be removed a stethoscope such as is used by physicians in listening to the beating of the patients heart and the work-ing of his breathing apparatus. This nay be made suitable to the purpose by lengthening the central tube. The other end of the device may then be held against any part of the motor without the necessity of removing the eceivers from the ears.

Another scheme is to secure from he junk man or local telephone comcany a telephone receiver body into he closed end of which is screwed a steel rod 3-16 inch in diameter and about 15 inches long. The rod should be threaded for about 1½ inches from one end and a nut and lock washer should be used on each side of the receiver so as to hold the steel rod securely in place. When the rod is held against the engine and the receiver to the ear all sounds in the motor are "telegraphed up the rod so that each bearing or wrist-pin knock stands out clearly above the noise of the operating parts of the motor.-American Motorist.

EXPECT DODGE CITY RACE TO SET RECORDS

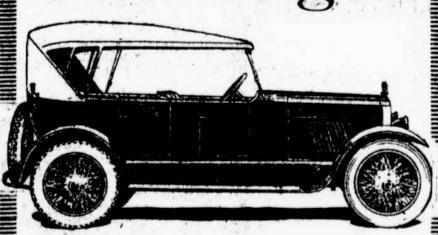
Dirt track motorcycle records are xpected to be broken on July 5, when a galaxy of stars will compete for premier honors on the two-mile sauce rack at Dodge City, Kan., in a revival of the famous 300-mile championship event that was discontinued in 1916.
Two dozen famous riders, including Gene Walker. Fred Ludlow, Roy "Shrimp" Burns, Bob Newman and Otto Walker will try to break the mark of eighty-five miles an hour set for the distance. With new machines a speed of ninety miles an hour Interest is at fever heat, and it is

expected 35.000 motorcycle fans will in attendance when the starting

NEW HEALTH TRUCK.

New York State has a "Healthme bile," a large motor truck designed to carry educational health campaigns into isolated rural districts. The car carries as electric storage battery equipment and a large motion pic

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VOGUE—LORRAINE—JONES 2424 Eighteenth Street N. W.

ELEVATED ROAD FOR BANKERS NOW HELP

Would Relieev Rush Hour Congestion in Big Cities, Says Motor Man.

An elevated automobile highway to elieve the traffic congestion of grow ng automobile centers is advocated by Fred Swindell, of the Tri-State Motor Co., Maibohm distributors in Washington.

"Such an elevated highway." ob serves Swindell, "is not to be con sidered as a substitute for rapid traito take from the congested district: in the rush hour a large proportion contribute to power losses in an en- of the automobiles which attempt to gine and not the least of them is a travel the main arteries, and thus save time for the motorist, delay and injury to the pedestrain, and at the same time increase the differency of the street below for the use of surface cars and trucks.

"The citizen who is compelled stand in a crowd while lines of automobiles whizz by could not be con-fronted with this difficulty if a good sharq of the passenger cars were overlead on a side street. No ordi-nanc would be required to divert the passetiger cars to this highway, once driver learned that they could proand with freedom from starting and stoppin annoyances.
"A hi hway of this nature, say 25

eet in width, would make it possible for three passenger cars to trave abrest. It could be widened some what at regular intervals to provide stopping place for bus lines to entrain and discharge passengers with out interfering with through traine. Approaches to the highway would be at right angles to it, and at regular intervals along its entire length. The approaches would lead by easy grades down to the center and level of the cross streets. Loops could conect main elevated highways and give convenient access to overhead parking

"By permitting traffic to go only toward the center of the business district during the rush hours of the able direction in the late afternoon. relatively high rate of speed could be maintained and danger of collision minimized.

"An investigation of the cost of such a highway by the Maibohm Mo-tors Company shows that a structive of re-enforced concrete paved with a noiseless and dustless surface, ar-tistically modeled on the plan of the elevated railways of Berlin, would cost only \$300,000 a mile, and it would add materially to the beauty of any

SIXTY DIMMERS PASS. Of the 700 different dimming de-

ices for headlights tested by the New Jersey motor vehicles depart ment, only sixty have been passed by the commissioner

liscussed at length by John Chapman Hilder in the May issue of MoToR. Most of us remember when this practice was frowned upon by the solid financial interests. "If any proof financial interests. were needed today that the automo- ported by agents there and distribbile has passed out of the ldxury sited thence over the country.

PEOPLE BUY CARS

very definitely changed attitude of Tourists with automobiles may enbankers throughout the country, who ter Japan by paying the required imowning a car, but actually help him it will be refunded if the car is re-Mr. Hilder, "it would be found in the

Japan. Automobiles are usually im-

exported by the owner within three

Tokyo is the center of motordom in TRACTOR REPLACES HORSE. Motor trucks and tractors have re placed herses on more than fifty

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